Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.   (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

a first~~first~~ data processor means;

a first communication part connected with the first data processor ~~means~~;

a first antenna connected with the first communication part;

a first storage connected with the first data processor ~~means~~, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor ~~means~~; and

a portable unit including:

a second~~second~~ data processor ~~means~~;

a second communication part connected with the second data processor ~~means~~;

a second antenna connected with the second communication part;

a third storage connected with the second data processor ~~means~~, the third storage preliminarily storing the first data for mutual authentication; and

a fourth storage connected with the second data processor ~~means~~, the fourth storage preliminarily storing second data for mutual authentication different from the first data for mutual authentication;

wherein:

the immobilizer unit further includes an information reception part connected with the first data processor means, and when a first instruction is fed into the information reception part, the first data processor means and the second data processor ~~authenticate~~means include means for authenticating each other by a first authentication comprising: (1) the first data processor means transmitting via the first antenna an encrypted data based on the first data for mutual authentication stored in the first storage and (2) the second data processor means receiving the encrypted data via the second antenna, decrypting the encrypted data and comparing the decrypted data to the first data for mutual authentication stored in the third storage; and

the first data processor means and the second data processor means include means for authenticating each other by a second authentication, responsive to the first authentication between the first data processor means and the second data processor means, comprising: 1) the second data processor ~~transmits~~means transmitting the second data for mutual authentication stored in the fourth storage via the second ~~antenna;~~antenna, 2) the first data processor means further ~~stores~~storing, into the second storage, the second data for mutual authentication received via the first antenna and ~~transmits~~transmitting the second data for mutual authentication stored in the second storage via the first ~~antenna;~~antenna, and 3) the second data processor means further ~~stores~~storing, into the third storage, the second data for mutual authentication received via the second antenna.

2.   (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

~~a first~~first data processor means;

a first communication part connected with the first data processor means;

a first antenna connected with the first communication part;

a first storage connected with the first data processor means, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor means, the second storage preliminarily storing second data for mutual authentication different from the first data for mutual authentication; and

a portable unit including:

a secondsecond data processor means;

a second communication part connected with the second data processor means;

a second antenna connected with the second communication part; and

a third storage connected with the second data processor means, the third storage preliminarily storing the first data for mutual authentication;

wherein,wherein:

the immobilizer unit further includes an information reception part connected with the first data processor means, and when a first instruction is fed into the information reception part, the first data processor means and the second data processor means include means for authenticating authenticate each other by a first authentication comprising: (1) the first data processor means transmitting via the first antenna an encrypted data based on the first data for mutual authentication stored in the first storage and (2) the second data processor means receiving the encrypted data via the second antenna, decrypting the encrypted data and comparing the decrypted data to the first data for mutual authentication stored in the third storage; and

the first data processor means and the second data processor means include means for authenticating each other by a second authentication, responsive to the first authentication between the first data processor means and the second data processor means, comprising: 1) the first data processor means transmittingtransmits

the second data for mutual authentication that is stored in the second storage via the first antenna, ~~and~~ and 2) the second data processor ~~means storing~~stores, into the third storage, the second data for mutual authentication received via the second antenna.

3.   (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

a ~~first~~first data processor means;

a first communication part connected with the first data processor means;

a first antenna connected with the first communication part;

a first storage connected with the first data processor means, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor means; and

a portable unit including:

a ~~second~~second data processor means;

a second communication part connected with the second data processor means;

a second antenna connected with the second communication part; and

a third storage connected with the second data processor means, the third storage preliminarily storing the first data for mutual authentication;

~~wherein,~~wherein:

the immobilizer unit further includes an information reception part connected with the first data processor means, and when a first instruction is fed into the information reception part, the first data processor means and the second data

processor means include means for authenticatingauthenticate each other by a first authentication comprising: (1) the first data processor means transmitting via the first antenna an encrypted data based on the first data for mutual authentication stored in the first storage and (2) the second data processor means receiving the encrypted data via the second antenna, decrypting the encrypted data and comparing the decrypted data to the first data for mutual authentication stored in the third storage;

the first data processor means and the second data processor means include means for authenticating each other by a second authentication, responsive to the first authentication between the first data processor means and the second data processor means, comprising: 1) the first data processor means requestingrequests the second data processor means via the first antenna to generate second data for mutual authentication different from the first data for mutual authentication;, 2) responsive to the request from the first data processor means, the second data processor means further generatesgenerating, stores storing into the third storage, and transmits transmitting via the second antenna, the second data for mutual authentication ;authentication, 3) the first data processor storesmeans storing, into the second storage, the second data for mutual authentication received via the first antenna and transmits transmitting the second data for mutual authentication stored in the second storage via the first antenna; and and 4) the second data processor means further storesstoring, into the third storage, the second data for mutual authentication received via the second antenna.

4.   (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

a firstfirst data processor means;

a first communication part connected with the first data processor means;

a first antenna connected with the first communication part;

a first storage connected with the first data processor means, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor means; and

a portable unit including:

~~a second~~second data processor means;

a second communication part connected with the second data processor means;

a second antenna connected with the second communication part; and

a third storage connected with the second data processor means, the third storage preliminarily storing the first data for mutual authentication;

~~wherein,~~wherein:

the immobilizer unit further includes an information reception part connected with the first data processor means, and when a first instruction is fed into the information reception part, the first data processor means and the second data processor means include means for authenticating ~~authenticate~~ each other by a first authentication comprising: (1) the first data processor means transmitting via the first antenna an encrypted data based on the first data for mutual authentication stored in the first storage and (2) the second data processor means receiving the encrypted data via the second antenna, decrypting the encrypted data and comparing the decrypted data to the first data for mutual authentication stored in the third storage;

the first data processor means and the second data processor means include means for authenticating each other by a second authentication, responsive to the authentication between the first data processor means and the second data processor means, comprising: 1) the first data processor means ~~generates,~~generating, ~~stores~~storing into the second storage, and ~~transmits~~transmitting via the first antenna, second data for mutual authentication different from the first data for mutual authentication;authentication and 2) the second data processor ~~stores~~means storing, into the third storage, the second data for mutual authentication received via the second antenna.

5.   (Currently Amended) The vehicle antitheft system according to claim 1, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, either the first data processor means generates and stores into the second storage first accumulation data different from the second data for mutual authentication, or the second data processor means generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

6.   (Currently Amended) The vehicle antitheft system according to claim 1, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor means transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor means stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

7.   (Currently Amended) The vehicle antitheft system according to claim 1, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor means and the second data processor means authenticate each other also using the ID code.

8.   (Currently Amended) The vehicle antitheft system according to claim 7, wherein the immobilizer unit further has a sixth storage, the second data processor

means transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor means stores, into the sixth storage, the ID code received via the first antenna.

9.   (Currently Amended) The vehicle antitheft system according to claim 8, wherein, upon input of a second instruction into the information reception part, the first data processor means generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.

10.   (Currently Amended) The vehicle antitheft system according to claim 2, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, either the first data processor means generates and stores into the second storage first accumulation data different from the second data for mutual authentication, or the second data processor means generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

11.   (Currently Amended) The vehicle antitheft system according to claim 2, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor means transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor means stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data

different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

12.   (Currently Amended) The vehicle antitheft system according to claim 2, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor means and the second data processor means authenticate each other also using the ID code.

13.   (Currently Amended) The vehicle antitheft system according to claim 12, wherein the immobilizer unit further has a sixth storage, the second data processor means transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor means stores, into the sixth storage, the ID code received via the first antenna.

14.   (Currently Amended) The vehicle antitheft system according to claim 13, wherein upon input of a second instruction into the information reception part, the first data processor means generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.

15.   (Currently Amended) The vehicle antitheft system according to claim 3, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, either the first data processor means generates and stores into the second storage first accumulation data different from the second data for mutual authentication, or the second data processor means generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

16.   (Currently Amended) The vehicle antitheft system according to claim 3, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor means transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor means stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

17.   (Currently Amended) The vehicle antitheft system according to claim 3, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor means and the second data processor means authenticate each other also using the ID code.

18.   (Currently Amended) The vehicle antitheft system according to claim 17, wherein the immobilizer unit further has a sixth storage, the second data processor means transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor means stores, into the sixth storage, the ID code received via the first antenna.

19.   (Currently Amended) The vehicle antitheft system according to claim 18, wherein upon input of a second instruction into the information reception part, the first data processor means generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.

20.   (Currently Amended) The vehicle antitheft system according to claim 4, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, either the first data processor means generates and stores into

the second storage first accumulation data different from the second data for mutual authentication, or the second data processor means generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

21.   (Currently Amended) The vehicle antitheft system according to claim 4, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor means transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor means stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, either the first data processor means generates and stores into the second storage second accumulation data different from the first data for mutual authentication, or the second data processor means generates and stores into the third storage the second accumulation data.

22.   (Currently Amended) The vehicle antitheft system according to claim 4, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor means and the second data processor means authenticate each other also using the ID code.

23.   (Currently Amended) The vehicle antitheft system according to claim 22, wherein the immobilizer unit further has a sixth storage, the second data processor means transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor means stores, into the sixth storage, the ID code received via the first antenna.

24.   (Currently Amended)   The vehicle antitheft system according to claim 23, wherein upon input of a second instruction into the information reception part, the first data processor <u>means</u> generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.